

What is claimed is

1. A data storage disk having a gravity center, comprising:
  - an outer edge;
  - an inner edge; and
  - at least one slot disposed between said outer edge and said inner edge;wherein said slot hinders an extension to a crack occurred in said data storage disk.
2. The data storage disk of claim 1, further comprising a data storage region positioned between said outer edge and said inner edge, and said slot being disposed between said data storage region and said inner edge.
3. The data storage disk of claim 1, wherein said slot is in a curved shape.
4. The data storage disk of claim 3, wherein said slot is disposed circumferentially around the gravity center of said data storage disk.
5. The data storage disk of claim 1, further comprising a plurality of slots, wherein a geometrically center of said slots is coincided with the gravity center of said data storage disk.
6. The data storage disk of claim 5, wherein a straight normal line drawn from the center toward any point at said outer edge intersects with one of said slots.
7. The data storage disk of claim 1, wherein said slot has an inner rim of a smooth close loop.
8. The data storage disk of claim 1, wherein a distance defined between said slot and said inner edge is substantially less than 1.25 cm.
9. A data storage disk, comprising:
  - a center hollow portion;
  - a data storage portion;

a non-recording portion disposed between said center hollow portion and said data storage portion; and

at least one slot disposed in said non-recording portion;

wherein said slot hinders an extension to a crack occurred in said data storage disk.

10. The data storage disk of claim 9, wherein a distance between said slot and said data storage portion is substantially less than 1.25 cm.
11. The data storage disk of claim 9, wherein said slot is disposed circumferentially around said center hollow portion.
12. A data storage disk having a center, comprising:
  - an outer edge;
  - an inner edge;
  - a data storage region disposed between said outer edge and said inner edge; and
  - at least one slot disposed between said data storage region and said inner edge;wherein said slot hinders an extension to said crack occurred in said data storage disk.
13. The data storage disk of claim 12, wherein said slot is in a curved shape.
14. The data storage disk of claim 13, wherein said slot is disposed circumferentially around the center of said data storage disk.
15. The data storage disk of claim 12, further comprising a plurality of slots, wherein said data storage disk has a gravity center and a geometrically center of said slots is coincided with the gravity center of said data storage disk.
16. The data storage disk of claim 15, wherein a straight normal line drawn from the center toward any point at said outer edge intersects with one of said slots.
17. The data storage disk of claim 12, wherein said slot has an inner rim of a smooth

'close loop.

18. The data storage disk of claim 12, wherein a first distance defined between said slot and said inner edge is substantially less than 1.25 cm.
19. The data storage disk of claim 12, wherein a second distance defined between said slot and said data storage region is substantially less than 1.25 cm.